



# 中国国家强制性产品认证证书



证书编号: 2020322316002263

认证委托人名称: Eaton Electric Limited  
认证委托人地址: Tay House, 300 Bath Street, Glasgow, G2 4NA, United Kingdom  
生产者名称: Eaton Electric Limited  
生产者地址: Tay House, 300 Bath Street, Glasgow, G2 4NA, United Kingdom  
生产企业名称: Eaton Electric Limited  
生产企业地址: Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom

产品名称: 模拟量输入隔离栅

系列、规格、型号: MTLx500

标准: GB 3836.1-2010、GB 3836.4-2010

上述产品符合强制性产品认证实施规则 CNCA-C23-01:2019 的要求, 特发此证。

发证日期: 2020 年 9 月 27 日 有效期至: 2025 年 9 月 26 日

首次发证日期: 2020 年 9 月 27 日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书的相关信息可通过国家认监委网站 [www.cnca.gov.cn](http://www.cnca.gov.cn) 查询



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上海仪器仪表自控系统检验测试所有限公司

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S 0001957





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## 附 件

产品名称: 模拟量输入隔离栅

型号规格: MTL4541, MTL4544, MTL4541B, MTL4541P, MTL4544B  
MTL4541T, MTL4541S, MTL4544D, MTL4544S, MTL5541,  
MTL5544, MTL5541-T, MTL5541S-T, MTL5541S, MTL5544D  
MTL5544S

防爆标志: [Ex ia Ga] IIC

电气参数: 非本安端电气参数:

| 型 号      | 接线端子代码               | 最高电压 (Um) |
|----------|----------------------|-----------|
| MTL4541  | 8, 9, 13, 14         | 250V      |
| MTL4544  | 8, 9, 11, 12, 13, 14 | 250V      |
| MTL4541B | 8, 9, 11, 13, 14     | 250V      |
| MTL4541P | 8, 9, 11, 13, 14     | 250V      |
| MTL4544B | 8, 9, 11, 12, 13, 14 | 250V      |
| MTL4541T | 8, 9, 11, 13, 14     | 250V      |
| MTL4541S | 8, 9, 13, 14         | 250V      |
| MTL4544D | 8, 9, 11, 12, 13, 14 | 250V      |
| MTL4544S | 8, 9, 11, 12, 13, 14 | 250V      |

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| 型 号        | 接线端子代码                      | 最高电压 (Um) |
|------------|-----------------------------|-----------|
| MTL5541    | 10, 11, 12, 13, 14          | 250V      |
| MTL5544    | 7, 8, 9, 10, 11, 12, 13, 14 | 250V      |
| MTL5541-T  | 10, 11, 12, 13, 14          | 250V      |
| MTL5541S-T | 10, 11, 12, 13, 14          | 250V      |
| MTL5541S   | 10, 11, 12, 13, 14          | 250V      |
| MTL5544D   | 7, 8, 9, 10, 11, 12, 13, 14 | 250V      |
| MTL5544S   | 7, 8, 9, 10, 11, 12, 13, 14 | 250V      |

本安端电气参数:

| 型 号      | 接线端子<br>代码 | 最高输出<br>电压<br>U <sub>o</sub> (V) | 最大输出<br>电流<br>I <sub>o</sub> (mA) | 最高输出<br>功率<br>P <sub>o</sub> (mW) | 内部等效参数  |         |
|----------|------------|----------------------------------|-----------------------------------|-----------------------------------|---------|---------|
|          |            |                                  |                                   |                                   | Ci (μF) | Li (mH) |
| MTL4541  | 2-1        | 28                               | 93                                | 650                               | 0       | 0       |
|          | 3-1        | 1.1                              | 53                                | 15                                | 0       | 0       |
|          | 2-3        | 28                               | 87                                | 610                               | 0       | 0       |
| MTL4544  | 2-1        | 28                               | 93                                | 650                               | 0       | 0       |
|          | 5-4        | 28                               | 93                                | 650                               | 0       | 0       |
|          | 3-1        | 1.1                              | 53                                | 15                                | 0       | 0       |
|          | 6-4        | 1.1                              | 53                                | 15                                | 0       | 0       |
|          | 2-3        | 28                               | 87                                | 610                               | 0       | 0       |
|          | 5-6        | 28                               | 87                                | 610                               | 0       | 0       |
| MTL4541B | 2-1        | 28                               | 93                                | 650                               | 0       | 0       |
|          | 3-1        | 1.1                              | 53                                | 15                                | 0       | 0       |
|          | 2-3        | 28                               | 87                                | 610                               | 0       | 0       |

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## 附件

| 型 号      | 接线端子<br>代码 | 最高输出<br>电压<br>$U_o$ (V) | 最大输出<br>电流<br>$I_o$ (mA) | 最高输出<br>功率<br>$P_o$ (mW) | 内部等效参数            |            |
|----------|------------|-------------------------|--------------------------|--------------------------|-------------------|------------|
|          |            |                         |                          |                          | $C_i$ ( $\mu F$ ) | $L_i$ (mH) |
| MTL4541P | 2-1        | 28                      | 116.6                    | 820                      | 0                 | 0          |
|          | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|          | 2-3        | 28                      | 107                      | 750                      | 0                 | 0          |
| MTL4544B | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|          | 5-4        |                         |                          |                          |                   |            |
|          | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|          | 6-4        |                         |                          |                          |                   |            |
|          | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
|          | 5-6        |                         |                          |                          |                   |            |
| MTL4541T | 2-1        | 22                      | 167                      | 920                      | 0                 | 0          |
|          | 3-1        | 1.0                     | 53                       | 14                       | 0                 | 0          |
|          | 2-3        | 22                      | 145                      | 800                      | 0                 | 0          |
| MTL4541S | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|          | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|          | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL4544D | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|          | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|          | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL4544S | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|          | 5-4        |                         |                          |                          |                   |            |
|          | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|          | 6-4        |                         |                          |                          |                   |            |
|          | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
|          | 5-6        |                         |                          |                          |                   |            |
| MTL5541  | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|          | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|          | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |

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## 附 件

| 型 号        | 接线端子<br>代码 | 最高输出<br>电压<br>$U_o$ (V) | 最大输出<br>电流<br>$I_o$ (mA) | 最高输出<br>功率<br>$P_o$ (mW) | 内部等效参数            |            |
|------------|------------|-------------------------|--------------------------|--------------------------|-------------------|------------|
|            |            |                         |                          |                          | $C_i$ ( $\mu F$ ) | $L_i$ (mH) |
| MTL5544    | 2-1<br>5-4 | 28                      | 93                       | 650                      | 0                 | 0          |
|            | 3-1<br>6-4 | 1.1                     | 53                       | 15                       | 0                 | 0          |
|            | 2-3<br>5-6 | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL5541-T  | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|            | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|            | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL5541S-T | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|            | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|            | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL5541S   | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|            | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|            | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL5544D   | 2-1        | 28                      | 93                       | 650                      | 0                 | 0          |
|            | 3-1        | 1.1                     | 53                       | 15                       | 0                 | 0          |
|            | 2-3        | 28                      | 87                       | 610                      | 0                 | 0          |
| MTL5544S   | 2-1<br>5-4 | 28                      | 93                       | 650                      | 0                 | 0          |
|            | 3-1<br>6-4 | 1.1                     | 53                       | 15                       | 0                 | 0          |
|            | 2-3<br>5-6 | 28                      | 87                       | 610                      | 0                 | 0          |

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| 型 号      | 接线端子代<br>码 | 最高输入<br>电压<br>Ui (V) | 最大输入<br>电流<br>Ii (mA) | 气体组别 | 最大外部参数  |        |
|----------|------------|----------------------|-----------------------|------|---------|--------|
|          |            |                      |                       |      | Co (μF) | Lo(mH) |
| MTL4541  | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |
| MTL4544  | 2-1<br>5-4 | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1<br>6-4 | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3<br>5-6 | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |
| MTL4541B | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |

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## 附 件

| 型 号      | 接线端子代<br>码 | 最高输入<br>电压<br>Ui (V) | 最大输入<br>电流<br>Ii (mA) | 气体组别 | 最大外部参数  |        |
|----------|------------|----------------------|-----------------------|------|---------|--------|
|          |            |                      |                       |      | Co (μF) | Lo(mH) |
| MTL4541P | 2-1        | ---                  | ---                   | II C | 0.083   | 2.7    |
|          |            |                      |                       | II B | 0.65    | 11.8   |
|          |            |                      |                       | II A | 2.15    | 23.5   |
|          | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3        | ---                  | ---                   | II C | 0.083   | 3.2    |
|          |            |                      |                       | II B | 0.65    | 13.7   |
|          |            |                      |                       | II A | 2.15    | 27.5   |
| MTL4544B | 2-1<br>5-4 | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1<br>6-4 | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3<br>5-6 | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |
| MTL4541T | 2-1        | ---                  | ---                   | II C | 0.165   | 0.91   |
|          |            |                      |                       | II B | 1.14    | 5.5    |
|          |            |                      |                       | II A | 4.2     | 10.7   |
|          | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3        | ---                  | ---                   | II C | 0.165   | 1.49   |
|          |            |                      |                       | II B | 1.14    | 7.5    |
|          |            |                      |                       | II A | 4.2     | 14.9   |

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| 型 号      | 接线端子代<br>码 | 最高输入<br>电压<br>Ui (V) | 最大输入<br>电流<br>Ii (mA) | 气体组别 | 最大外部参数  |        |
|----------|------------|----------------------|-----------------------|------|---------|--------|
|          |            |                      |                       |      | Co (μF) | Lo(mH) |
| MTL4541S | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |
| MTL4544D | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |
| MTL4544S | 2-1<br>5-4 | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1<br>6-4 | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3<br>5-6 | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |

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| 型 号       | 接线端子代<br>码 | 最高输入<br>电压<br>Ui (V) | 最大输入<br>电流<br>Ii (mA) | 气体组别 | 最大外部参数  |        |
|-----------|------------|----------------------|-----------------------|------|---------|--------|
|           |            |                      |                       |      | Co (μF) | Lo(mH) |
| MTL5541   | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|           |            |                      |                       | II B | 0.65    | 12.6   |
|           |            |                      |                       | II A | 2.15    | 33.6   |
|           | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|           |            |                      |                       | II B | 1000    | 47.8   |
|           |            |                      |                       | II A | 1000    | 104.7  |
|           | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|           |            |                      |                       | II B | 0.65    | 20.0   |
|           |            |                      |                       | II A | 2.15    | 40.9   |
| MTL5544   | 2-1<br>5-4 | ---                  | ---                   | II C | 0.083   | 4.2    |
|           |            |                      |                       | II B | 0.65    | 12.6   |
|           |            |                      |                       | II A | 2.15    | 33.6   |
|           | 3-1<br>6-4 | 30                   | 121                   | II C | 100     | 12.8   |
|           |            |                      |                       | II B | 1000    | 47.8   |
|           |            |                      |                       | II A | 1000    | 104.7  |
|           | 2-3<br>5-6 | ---                  | ---                   | II C | 0.083   | 4.9    |
|           |            |                      |                       | II B | 0.65    | 20.0   |
|           |            |                      |                       | II A | 2.15    | 40.9   |
| MTL5541-T | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|           |            |                      |                       | II B | 0.65    | 12.6   |
|           |            |                      |                       | II A | 2.15    | 33.6   |
|           | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|           |            |                      |                       | II B | 1000    | 47.8   |
|           |            |                      |                       | II A | 1000    | 104.7  |
|           | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|           |            |                      |                       | II B | 0.65    | 20.0   |
|           |            |                      |                       | II A | 2.15    | 40.9   |

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| 型 号        | 接线端子代<br>码 | 最高输入<br>电压<br>Ui (V) | 最大输入<br>电流<br>Ii (mA) | 气体组别 | 最大外部参数  |        |
|------------|------------|----------------------|-----------------------|------|---------|--------|
|            |            |                      |                       |      | Co (μF) | Lo(mH) |
| MTL5541S-T | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|            |            |                      |                       | II B | 0.65    | 12.6   |
|            |            |                      |                       | II A | 2.15    | 33.6   |
|            | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|            |            |                      |                       | II B | 1000    | 47.8   |
|            |            |                      |                       | II A | 1000    | 104.7  |
|            | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|            |            |                      |                       | II B | 0.65    | 20.0   |
|            |            |                      |                       | II A | 2.15    | 40.9   |
| MTL5541S   | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|            |            |                      |                       | II B | 0.65    | 12.6   |
|            |            |                      |                       | II A | 2.15    | 33.6   |
|            | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|            |            |                      |                       | II B | 1000    | 47.8   |
|            |            |                      |                       | II A | 1000    | 104.7  |
|            | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|            |            |                      |                       | II B | 0.65    | 20.0   |
|            |            |                      |                       | II A | 2.15    | 40.9   |
| MTL5544D   | 2-1        | ---                  | ---                   | II C | 0.083   | 4.2    |
|            |            |                      |                       | II B | 0.65    | 12.6   |
|            |            |                      |                       | II A | 2.15    | 33.6   |
|            | 3-1        | 30                   | 121                   | II C | 100     | 12.8   |
|            |            |                      |                       | II B | 1000    | 47.8   |
|            |            |                      |                       | II A | 1000    | 104.7  |
|            | 2-3        | ---                  | ---                   | II C | 0.083   | 4.9    |
|            |            |                      |                       | II B | 0.65    | 20.0   |
|            |            |                      |                       | II A | 2.15    | 40.9   |

批 准:



上海仪器仪表自控系统检验测试所有限公司





# 中国国家强制性产品认证证书



**SITIiAS**  
Worldwide Access

证书编号: 2020322316002263

## 附 件

| 型 号      | 接线端子代<br>码 | 最高输入<br>电压<br>Ui (V) | 最大输入<br>电流<br>Ii (mA) | 气体组别 | 最大外部参数  |        |
|----------|------------|----------------------|-----------------------|------|---------|--------|
|          |            |                      |                       |      | Co (μF) | Lo(mH) |
| MTL5544S | 2-1<br>5-4 | ---                  | ---                   | II C | 0.083   | 4.2    |
|          |            |                      |                       | II B | 0.65    | 12.6   |
|          |            |                      |                       | II A | 2.15    | 33.6   |
|          | 3-1<br>6-4 | 30                   | 121                   | II C | 100     | 12.8   |
|          |            |                      |                       | II B | 1000    | 47.8   |
|          |            |                      |                       | II A | 1000    | 104.7  |
|          | 2-3<br>5-6 | ---                  | ---                   | II C | 0.083   | 4.9    |
|          |            |                      |                       | II B | 0.65    | 20.0   |
|          |            |                      |                       | II A | 2.15    | 40.9   |

批 准:



上海仪器仪表自控系统检验测试所有限公司